IPMDAR Schedule Performance Dataset

Version 1.0

Data Exchange Instructions

March 12, 2020

1 Overview

The purpose of this document is to provide specific direction for using the File Format Specification for the IPMDAR Schedule Performance Dataset to exchange integrated master schedule (IMS) data.

The IPMDAR Schedule Performance Dataset follows a relational data model intended to capture the structure and status of an integrated master schedule at a fixed point in time at a sufficient level of detail to enable reliable static analysis.

All amounts are represented in unscaled units. Implicit factors such as thousands or millions are not used.

- 2 Data
- 2.1 Tables

2.1.1 DatasetMetadata

Table	DatasetMetadata		
Entity	DatasetMetadata		
Purpose	Provides metadata for the dataset.		
Fields	Name	Use Notes	
	SecurityMarking	Provide a security marking which includes the security classification. If the data are	
		unclassified, use the marking "UNCLASSIFIED" or a marking that begins with "UNCLASSIFIED//".	
		Refer to DoD Manual 5200.01 for guidance on information security markings.	
	DistributionStatement	If applicable, provide a distribution statement to identify restrictions on the document's	
		availability for distribution, release, and disclosure.	
	ReportingPeriodEndDate	Provide the end date of the current reporting period for the dataset.	
	ContractorName	Provide the name of the reporting contractor.	
	ContractorIDCodeTypeID	Indicate the type of ID code used to identify the reporting contractor.	
	ContractorIDCode	Provide the ID code used to identify the reporting contractor.	
	ContractorAddress_Street	Provide the street address of the reporting contractor.	
	ContractorAddress_City	Provide the city in which the reporting contractor is located.	
	ContractorAddress_State	Provide the state (or country subdivision) in which the reporting contractor is located.	
	ContractorAddress_Country	Provide the country in which the reporting contractor is located.	
	ContractorAddress_ZipCode	Provide the ZIP code (or postal code) in which the reporting contractor is located.	
	PointOfContactName	Provide the point of contact name.	
	PointOfContactTitle	Provide the point of contact title.	
	PointOfContactTelephone	Provide the point of contact telephone number.	
	PointOfContactEmail	Provide the point of contact email address.	
	ContractName	Provide the contract name.	
	ContractNumber	Provide the contract number.	
	ContractType	Provide the contract type (e.g. CPIF, CPAF, etc.).	
	ContractTaskOrEffortName	Provide the name of the contract task/effort.	
	ProgramName	Provide the program name.	
	ProgramPhase	Provide the program phase (e.g. development, production, sustainment, LRIP, etc.).	
	EVMSAccepted	Indicate whether or not the contractor's EVMS has been accepted by the government.	
	EVMSAcceptanceDate	Provide the date of EVMS acceptance, if applicable.	
Use Notes			

2.1.2 SourceSoftwareMetadata

Table	SourceSoftwareMetadata	SourceSoftwareMetadata	
Entity	SourceSoftwareMetadata	SourceSoftwareMetadata	
Purpose	Provides metadata about the so	oftware that is the source of the dataset.	
Fields	Name	Use Notes	
	Data_SoftwareName	Provide the name of the software used to manage the source data, if applicable.	
	Data_SoftwareVersion	Provide the version of the software used to manage the source data, if applicable.	
	Data_SoftwareCompanyName	Provide the name of the company that produces the software used to manage the source	
		data, if applicable.	
	Data_SoftwareComments	Provide any comments about the software used to manage the source data, if applicable.	
	Export_SoftwareName	Provide the name of the software used to export the dataset, if applicable.	
	Export_SoftwareVersion	Provide the version of the software used to export the dataset, if applicable.	
	Export_SoftwareCompanyName	Provide the name of the company that produces the software used to export the dataset, if	
		applicable.	
	Export_SoftwareComments	Provide any comments about the software used to export the dataset, if applicable.	
Use Notes			

2.1.3 ProjectScheduleData

Table	ProjectScheduleData	ProjectScheduleData	
Entity	ProjectScheduleData		
Purpose	Provides schedule data	at the project level.	
Fields	Name	Use Notes	
	StatusDate	Provide the status date for the schedule. This is the date as of which the schedule status was last updated, also known as the "data date", "time-now", or "progress line".	
	CurrentStartDate	Provide the current start date for the project. If the project has not started yet, this is the forecast start date. If the project has started, this is the actual start date.	
	CurrentFinishDate	Provide the current finish date for the project. If the project has not finished yet, this is the forecast finish date. If the project has finished, this is the actual finish date.	
	BaselineStartDate	Provide the baseline start date for the project, if applicable.	
	BaselineFinishDate	Provide the baseline finish date for the project, if applicable.	
	ActualStartDate	Provide the actual start date for the project, if applicable.	
	ActualFinishDate	Provide the actual finish date for the project, if applicable.	
	DurationUnitsID	Provide the units in which durations are planned and reported (e.g. days or hours).	
Use Notes			

2.1.4 ProjectCustomFieldDefinitions

Table	ProjectCustomField	ProjectCustomFieldDefinitions	
Entity	ProjectCustomField	ProjectCustomFieldDefinition	
Purpose	Provides definitions	Provides definitions for custom fields at the project level.	
Fields	Name	Use Notes	
	CustomFieldID	Provide the ID of the custom field according to the CustomFieldEnum.	
	Name	Provide a name for the custom field.	
	Comments	Provide any comments about the custom field.	
Use Notes			

2.1.5 ProjectCustomFieldValues

Table	ProjectCustomFieldValue	ProjectCustomFieldValues	
Entity	ProjectCustomFieldValue	ProjectCustomFieldValue	
Purpose	Provides values for custo	Provides values for custom fields at the project level.	
Fields	Name	Use Notes	
	CustomFieldID	Provide the ID of the custom field according to the CustomFieldEnum.	
	Value	Value Provide the value of the custom field for the project.	
Use Notes			

2.1.6 Calendars

Table	Calendars	Calendars	
Entity	Calendar	Calendar	
Purpose	Provides definitions for	Provides definitions for the calendars used in the schedule.	
Fields	Name	Use Notes	
	ID	Provide a unique ID for the calendar.	
	Name	Provide a name for the calendar.	
	Comments	Provide any comments about the calendar.	
Use Notes			

2.1.7 CalendarWorkshifts

Table	CalendarWorkshifts	CalendarWorkshifts	
Entity	CalendarWorkshift	CalendarWorkshift	
Purpose	Provides definitions for	the workshifts associated with each calendar.	
Fields	Name	Use Notes	
	CalendarID	Provide the ID of the associated calendar.	
	Ordinal	Provide an ordinal (e.g. 1, 2, 3, etc.) to distinguish the workshift if more than one workshift is associated with the calendar; otherwise, this field may be left null or reported as zero.	
	SundayWorkHours	Provide for the number of work hours for Sunday. If Sunday is not a work day, this field may be left null or reported as zero.	
	MondayWorkHours	Provide for the number of work hours for Monday. If Monday is not a work day, this field may be left null or reported as zero.	
	TuesdayWorkHours	Provide for the number of work hours for Tuesday. If Tuesday is not a work day, this field may be left null or reported as zero.	
	WednesdayWorkHours	Provide for the number of work hours for Wednesday. If Wednesday is not a work day, this field may be left null or reported as zero.	
	ThursdayWorkHours	Provide for the number of work hours for Thursday. If Thursday is not a work day, this field may be left null or reported as zero.	
	FridayWorkHours	Provide for the number of work hours for Friday. If Friday is not a work day, this field may be left null or reported as zero.	
	SaturdayWorkHours	Provide for the number of work hours for Saturday. If Saturday is not a work day, this field may be left null or reported as zero.	
Use Notes			

2.1.8 CalendarExceptions

Table	CalendarExceptions	CalendarExceptions	
Entity	CalendarException	CalendarException	
Purpose	Provides a list of exc	Provides a list of exceptions for each calendar (including holidays and partial or extended work days).	
Fields	Name	Use Notes	
	CalendarID	Provide the ID of the calendar to which the exception applies.	
	ExceptionDate	Provide the date of the calendar exception.	
	WorkHours	Provide the number of work hours for the date in question. If the date is a holiday, this field may	
		be left null or reported as zero.	
Use Notes			

2.1.9 Tasks

Table	Tasks		
Entity	Task		
Purpose	Provides definitions for the tasks composing the schedule (including activities, milestones, etc.).		
Fields	Name	Use Notes	
	ID	Provide a unique ID for the task. This ID must remain the same across each dataset submission.	
	Name	Provide a name for the task.	
	TaskTypeID	Indicate the task type according to the TaskTypeEnum.	
	TaskSubtypeID	Indicate the task sub-type according to the TaskSubtypeEnum, if applicable.	
	TaskPlanningLevelID	Indicate the task planning level according to the TaskPlanningLevelEnum, if applicable.	
	WBSElementID	Provide the ID of the lowest-level WBS element with which the task is associated, if applicable.	
	OBSElementID	Provide the ID of the lowest-level OBS element with which the task is associated, if applicable.	
	ControlAccountID	Provide the ID of the control account or summary level planning package with which the task is associated, if applicable.	
	WorkPackageID	Provide the ID of the work package or planning package with which the task is associated, if applicable.	
	IMPElementID	Provide the ID of the lowest-level IMP element with which the task is associated, if applicable.	
	SOWReference	Provide a reference to the section(s) of the SOW with which the task is associated, if applicable.	
	SubcontractorReference	Provide a reference to the subcontractor with which the task is associated, if applicable.	
	EarnedValueTechniqueID	Indicate the technique used to calculate earned value for the task according to the	
		EarnedValueTechniqueEnum, if applicable. Do not use this field if an activity represents a	
		planning package or a summary-level planning package, unless the field is used to identify level of effort or apportioned effort.	
	OtherEarnedValueTechnique	If the technique indicated by EarnedValueTechniqueID is OTHER_DISCRETE or FIXED_X_Y, provide a name or short description for the technique in this field.	
	SourceSubprojectReference	Provide a reference to the source subproject in the scheduling software, if applicable. This field is only intended to be used if the source of the dataset is a schedule that incorporates one or more subprojects. In practice, the subproject reference may be an ID, name, file name, file path, etc., depending on the source software.	
	SourceTaskReference	Provide a reference to the source task in the scheduling software, if applicable. This field may be used if, for whatever reason, the ID of the task in the dataset does not provide a	

		convenient means of locating the same task in the source data. The source task reference may be automatically generated or user defined, globally unique or context dependent, and constant in time or variable with time, depending on the source software.
	Comments	Provide any comments about the task.
Use Notes		

2.1.10 TaskScheduleData

Table	TaskScheduleData	TaskScheduleData	
Entity	TaskScheduleDataRecord		
Purpose	Provides schedule data	Provides schedule data for each task.	
Fields	Name	Use Notes	
	TaskID	Provide the ID of the associated task.	
	CalendarID	Provide the ID of the calendar used to schedule dates and measure durations for the task.	
	CurrentDuration	Provide the current total duration for the task. This is the total span of working time between task start and task finish.	
	CurrentStartDate	Provide the current start date for the task. If the task has not started yet, this is the forecast start date. If the task has started, this is the actual start date. The current start date typically matches the early start date, but may not depending on the configuration of the source software and the interpretation of task constraints by its scheduling algorithm. The current start date must be comparable to the baseline start date.	
	CurrentFinishDate	Provide the current finish date for the task. If the task has not finished yet, this is the forecast finish date. If the task has finished, this is the actual finish date. The current finish date typically matches the early finish date, but may not depending on the configuration of the source software and the interpretation of task constraints by its scheduling algorithm. The current finish date must be comparable to the baseline finish date.	
	EarlyStartDate	Provide the early start date for the task. This is the earliest possible date the task, or the remaining work for the task, can start. The exact definition depends on the configuration of the source software and the interpretation of task constraints by its scheduling algorithm.	
	EarlyFinishDate	Provide the early finish date for the task. This is the earliest possible date the task can finish. The exact definition depends on the configuration of the source software and the interpretation of task constraints by its scheduling algorithm.	
	LateStartDate	Provide the late start date for the task. This is the latest possible date the task, or the remaining work for the task, can start without delaying the finish of the project. The exact definition depends on the configuration of the source software and the interpretation of task constraints by its scheduling algorithm.	
	LateFinishDate	Provide the late finish date for the task. This is the latest possible date the task can finish without delaying the finish of the project. The exact definition depends on the configuration of the source software and the interpretation of task constraints by its scheduling algorithm.	
	FreeFloatDuration	Provide the duration of the free float for the task.	
	TotalFloatDuration	Provide the duration of the total float for the task.	
	OnCriticalPath	Indicate whether or not the task is on the critical path.	
	OnDrivingPath	Indicate whether or not the task is on the current driving path, if applicable.	

	Baseline Duration	Provide the baseline total duration for the task, if applicable.
	BaselineStartDate	Provide the baseline start date for the task, if applicable.
	BaselineFinishDate	Provide the baseline finish date for the task, if applicable.
	StartVarianceDuration	Provide the duration of the start variance for the task, if applicable. Start variance represents
		the difference between the current start date and the baseline start date, with a positive value
		if the current start date is later than the baseline start date, and a negative value if it is earlier.
	FinishVarianceDuration	Provide the duration of the finish variance for the task, if applicable. Finish variance represents
		the difference between the current finish date and the baseline finish date, with a positive
		value if the current finish date is later than the baseline finish date, and a negative value if it is
		earlier.
	CalculatedPercentComplete	Provide the calculated percent complete for the task as a fractional decimal (e.g. report 5% as
		0.05).
	PhysicalPercentComplete	Provide the physical percent complete for the task as a fractional decimal (e.g. report 5% as
		0.05).
	RemainingDuration	Provide the remaining duration for the task.
	ActualStartDate	Provide the actual start date for the task, if applicable. Use of this field is required if the task
		has started.
	ActualFinishDate	Provide the actual finish date for the task, if applicable. Use of this field is required if the task
		has finished.
Use Notes		

2.1.11 TaskCustomFieldDefinitions

Table	TaskCustomFieldDe	TaskCustomFieldDefinitions	
Entity	TaskCustomFieldDe	TaskCustomFieldDefinition	
Purpose	Provides definitions	Provides definitions for custom fields for tasks in the schedule.	
Fields	Name	Use Notes	
	CustomFieldID	Provide the ID of the custom field according to the CustomFieldEnum.	
	Name	Provide a name for the custom field.	
	Comments	Provide any comments about the custom field.	
Use Notes			

2.1.12 TaskCustomFieldValues

Table	TaskCustomFieldValues	TaskCustomFieldValues	
Entity	TaskCustomFieldValue	TaskCustomFieldValue	
Purpose	Provides values for custor	Provides values for custom fields for tasks in the schedule.	
Fields	Name	Use Notes	
	TaskID	Provide the ID of the associated task.	
	CustomFieldID	Provide the ID of the custom field according to the CustomFieldEnum.	
	Value	Provide the value of the custom field for the associated task.	
Use Notes			

2.1.13 TaskConstraints

Table	TaskConstraints	TaskConstraints	
Entity	TaskConstraint	TaskConstraint	
Purpose	Provides a list of the co	Provides a list of the constraints applied to tasks in the schedule.	
Fields	Name	Use Notes	
	TaskID	Provide the ID of the associated task.	
	ConstraintTypeID	Indicate the constraint type according to the TaskConstraintTypeEnum.	
	OtherConstraintType	If the constraint type indicated by ConstraintTypeID is OTHER, provide a name or short description	
		for the constraint type in this field.	
	ConstraintDate	Provide the constraint date.	
Use Notes			

2.1.14 TaskRelationships

Table	TaskRelationships		
Entity	TaskRelationship		
Purpose	Provides the network	Provides the network of predecessor/successor relationships between tasks in the schedule.	
Fields	Name	Use Notes	
	PredecessorTaskID	Provide the ID of the predecessor task.	
	SuccessorTaskID	Provide the ID of the successor task.	
	RelationshipTypeID	Indicate the relationship type according to the TaskRelationshipTypeEnum.	
	LagDuration	Provide the duration of the lag or lead (negative lag) associated with the relationship, if applicable.	
	LagCalendarID	Provide the ID of the calendar used to measure lag if different than the calendar associated with	
		the successor task.	
Use Notes			

2.1.15 TaskOutlineStructure

Table	TaskOutlineStructu	TaskOutlineStructure	
Entity	TaskOutlineNode	TaskOutlineNode	
Purpose	Provides the outline	Provides the outline (i.e. hierarchical structure) of summary tasks in the schedule, if applicable.	
Fields	Name	Use Notes	
	Level	Provide the level of the task outline node.	
	TaskID	Provide the ID of the task associated with the task outline node.	
	ParentTaskID	Provide the ID of the summary task associated with the parent task outline node, if applicable.	
Use Notes	The task outline struc	The task outline structure must be reported if the schedule includes summary tasks.	

2.1.16 Resources

Table	Resources	Resources	
Entity	Resource	Resource	
Purpose	Provides a list of the	Provides a list of the resources for the project.	
Fields	Name	Use Notes	
	ID	Provide a unique ID for the resource.	
	Name	Provide a name for the resource.	
	ElementOfCostID	Identify the element of cost for the resource according to the ElementOfCostEnum.	
	Comments	Provide any comments about the resource.	
Use Notes			

2.1.17 ResourceCustomFieldDefinitions

Table	ResourceCustomFie	ResourceCustomFieldDefinitions	
Entity	ResourceCustomFie	ResourceCustomFieldDefinition	
Purpose	Provides definitions	Provides definitions for custom fields for resources for the project.	
Fields	Name	Use Notes	
	CustomFieldID	Provide the ID of the custom field according to the CustomFieldEnum.	
	Name	Provide a name for the custom field.	
	Comments	Provide any comments about the custom field.	
Use Notes			

2.1.18 ResourceCustomFieldValues

Table	ResourceCustomFieldValu	ResourceCustomFieldValues	
Entity	ResourceCustomFieldValu	ResourceCustomFieldValue	
Purpose	Provides values for custor	Provides values for custom fields for resources for the project.	
Fields	Name	Use Notes	
	ResourceID	Provide the ID of the associated Resource.	
	CustomFieldID	Provide the ID of the custom field according to the CustomFieldEnum.	
	Value	Provide the value of the custom field for the associated Resource.	
Use Notes			

2.1.19 ResourceAssignments

Table	ResourceAssignments	ResourceAssignments		
Entity	ResourceAssignment	ResourceAssignment		
Purpose	Provides data about the assignr	nent of resources to tasks in the schedule.		
Fields	Name	Use Notes		
	ResourceID	Provide the ID of the associated resource.		
	TaskID	Provide the ID of the associated task.		
	Budget_AtCompletion_Dollars	Provide the budget at completion in dollars.		
	Budget_AtCompletion_Hours	Provide the budget at completion in hours.		
	Estimate_ToComplete_Dollars	Provide the remaining estimate to complete in dollars.		
	Estimate_ToComplete_Hours	Provide the remaining estimate to complete in hours.		
	Actual_ToDate_Dollars	Provide the actual to date dollars.		
	Actual_ToDate_Hours	Provide the actual to date hours.		
	PhysicalPercentComplete	Provide the physical percent complete for the resource assignment.		
Use Notes				

2.2 Enumerations

2.2.1 ContractorIDCodeTypeEnum

Enumeration	ContractorIDCodeTy	ContractorIDCodeTypeEnum	
Values	ID	Use Notes	
	DUNS	Use this ID to indicate that the contractor ID code is a DUNS code.	
	DUNS_PLUS_4	Use this ID to indicate that the contractor ID code is a DUNS+4 code.	
	CAGE	Use this ID to indicate that the contractor ID code is a CAGE code.	
Use Notes			

2.2.2 DurationUnitsEnum

Enumeration	DurationUnitsEn	DurationUnitsEnum	
Values	ID	Use Notes	
	DAYS	Use this ID to indicate that durations are reported in days.	
	HOURS	Use this ID to indicate that durations are reported in hours.	
Use Notes			

2.2.3 TaskTypeEnum

Enumeration	TaskTypeEnum	
Values	ID	Use Notes
	ACTIVITY	Use this ID to indicate that a task is an activity (an element of work with duration).
	MILESTONE	Use this ID to indicate that a task is a milestone (a point of reference without duration).
	SUMMARY	Use this ID to indicate that a task is a summary (a derived task defined in relation to a hierarchical
		task outline structure).
	НАММОСК	Use this ID to indicate that a task is a hammock (a derived task defined in relation to the endpoints
		of other tasks).
Use Notes		

2.2.4 TaskSubtypeEnum

Enumeration	TaskSubtypeEnum	TaskSubtypeEnum	
Values	ID	Use Notes	
	RISK_MITIGATION_TASK	Use this ID to indicate that a task is a risk mitigation task.	
	SCHEDULE_VISIBILITY_TASK	Use this ID to indicate that a task is a schedule visibility task.	
	SCHEDULE_MARGIN	Use this ID to indicate that a task represents schedule margin.	
	CONTRACTUAL_MILESTONE	Use this ID to indicate that a milestone is a contractual milestone.	
Use Notes			

2.2.5 TaskPlanningLevelEnum

Enumeration	TaskPlanningLevelEnum	
Values	ID	Use Notes
	SUMMARY_LEVEL_PLANNING_PACKAGE	Use this ID to indicate that a task directly represents (has a one-to-one relationship with) a summary-level planning package.
	CONTROL_ACCOUNT	Use this ID to indicate that a task directly represents (has a one-to-one relationship with) a control account.
	PLANNING_PACKAGE	Use this ID to indicate that a task directly represents (has a one-to-one relationship with) a planning package.
	WORK_PACKAGE	Use this ID to indicate that a task directly represents (has a one-to-one relationship with) a work package.
	ACTIVITY	Use this ID to indicate that none of the above applies. This typically means that the task is one of multiple activities that relate to (have a many-to-one relationship with) a single work package.
Use Notes		

2.2.6 EarnedValueTechniqueEnum

Enumeration	EarnedValueTechniqueE	EarnedValueTechniqueEnum	
Values	ID	Use Notes	
	APPORTIONED_EFFORT	Use this ID to indicate that earned value is dependent on other discrete tasks being completed.	
	LEVEL_OF_EFFORT	Use this ID to indicate that earned value is based on the level of effort in the absence of specific end results or deliverables.	
	MILESTONE	Use this ID to indicate that a specified percent complete (of the total budget) is earned when a milestone is complete.	
	FIXED_0_100	Use this ID to indicate that 100% of the budget value is earned when the work effort is complete.	
	FIXED_100_0	Use this ID to indicate that 100% of the budget value is earned when the work effort begins.	
	FIXED_X_Y	Use this ID to indicate that a fixed, non-zero percentage of the budget value is earned when work begins and a fixed, non-zero percentage is earned when work completes.	
	PERCENT_COMPLETE	Use this ID to indicate that earned value is based on the percent complete (between 0 and 100).	
	STANDARDS	Use this ID to indicate that earned value is based on a set standard defined for the type of product being produced.	
	UNITS	Use this ID to indicate that earned value is based on quantity of material units or manufactured components.	
	OTHER_DISCRETE	Use this ID to indicate that earned value for a discrete task is determined by a rule not defined above.	
Use Notes			

2.2.7 TaskConstraintTypeEnum

Enumeration	TaskConstraintTypeEnum	
Values	ID	Use Notes
	START_NO_EARLIER_THAN	Use this ID to denote a "Start No Earlier Than" (SNET) constraint.
	FINISH_NO_EARLIER_THAN	Use this ID to denote a "Finish No Earlier Than" (FNET) constraint.
	START_NO_LATER_THAN	Use this ID to denote a "Start No Later Than" (SNLT) constraint.
	FINISH_NO_LATER_THAN	Use this ID to denote a "Finish No Later Than" (FNLT) constraint.
	MUST_START_ON	Use this ID to denote a "Must Start On" (MSO) constraint.
	MUST_FINISH_ON	Use this ID to denote a "Must Finish On" (MFO) constraint.
	AS_LATE_AS_POSSIBLE	Use this ID to denote an "As Late As Possible" (ALAP) constraint.
	SHOULD_START_NO_LATER_THAN	Use this ID to denote a "Start No Later Than" (SNLT) constraint that does not restrict
		early dates from moving forward in time as a result of schedule logic.
	SHOULD_FINISH_NO_LATER_THAN	Use this ID to denote a "Finish No Later Than" (FNLT) constraint that does not restrict
		early dates from moving forward in time as a result of schedule logic.
	SHOULD_START_ON	Use this ID to denote a "Must Start On" (MSO) constraint that does not restrict early
		dates from moving forward in time as a result of schedule logic.
	SHOULD_FINISH_ON	Use this ID to denote a "Must Finish On" (MFO) constraint that does not restrict early
		dates from moving forward in time as a result of schedule logic.
	RESOURCE_LEVELING_START_DELAY	Use this ID to denote a start delay introduced as a result of resource leveling.
	RESOURCE_LEVELING_FINISH_DELAY	Use this ID to denote a finish delay introduced as a result of resource leveling. Use this
		constraint to indicate that the task finish is delayed by a different duration than the task
		start.
	DEADLINE	Use this ID to denote a "Deadline" date. This is an alias for
		SHOULD_FINISH_NO_LATER_THAN.
	OTHER	Use this ID to denote a constraint type other than any of the above.
Use Notes	All tasks are assumed to start "As Soon As Possible" (ASAP) unless explicitly constrained otherwise. Do not use OTHER to	
	indicate an ASAP constraint.	

2.2.8 TaskRelationshipTypeEnum

Enumeration	TaskRelationshipType	TaskRelationshipTypeEnum	
Values	ID	Use Notes	
	FINISH_TO_START	Use this ID to denote a finish-to-start (FS) relationship.	
	START_TO_START	Use this ID to denote a start-to-start (SS) relationship.	
	FINISH_TO_FINISH	Use this ID to denote a finish-to-finish (FF) relationship.	
	START_TO_FINISH	Use this ID to denote a start-to-finish (SF) relationship.	
Use Notes			

2.2.9 ElementOfCostEnum

Enumeration	ElementOfCostEnum	ElementOfCostEnum	
Values	ID	Use Notes	
	LABOR	Use this ID to identify the element of cost for a resource as Labor.	
	MATERIAL	Use this ID to identify the element of cost for a resource as Material.	
	OTHER_DIRECT_COSTS	Use this ID to identify the element of cost for a resource as Other Direct Costs.	
	SUBCONTRACT	Use this ID to identify the element of cost for a resource as Subcontract.	
Use Notes			

2.2.10 CustomFieldEnum

Enumeration	CustomFieldEnum	CustomFieldEnum	
Values	ID	Use Notes	
	FIELD_01	Use this ID to identify a custom field as Field 01.	
	FIELD_02	Use this ID to identify a custom field as Field 02.	
	FIELD_03	Use this ID to identify a custom field as Field 03.	
	FIELD_04	Use this ID to identify a custom field as Field 04.	
	FIELD_05	Use this ID to identify a custom field as Field 05.	
	FIELD_06	Use this ID to identify a custom field as Field 06.	
	FIELD_07	Use this ID to identify a custom field as Field 07.	
	FIELD_08	Use this ID to identify a custom field as Field 08.	
	FIELD_09	Use this ID to identify a custom field as Field 09.	
	FIELD_10	Use this ID to identify a custom field as Field 10.	
Use Notes			